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BY: Geme Conti Date: September 14, 2004

MAIL STOP AMENDMENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Patent Application of: :  
Il-Joo Cho et al. :  
: :  
Conf. No.: 5358 : Group Art Unit: 2881  
: :  
Appln. No.: 10/777,941 : Examiner: David A. Vanore  
: :  
Filing Date: February 12, 2004 : Attorney Docket No.: 10061-17U1  
: (P02000-11US/D)  
Title: Method of Fabricating Probe for Scanning Probe Microscope

**RESPONSE TO ELECTION OF SPECIES REQUIREMENT**

This is in response to the Office Action (Election of Species Requirement) dated August 24, 2004 (Paper No. 081604). This response is being timely submitted by September 24, 2004.

**REMARKS**

Election of Species Requirement

In the Office Action, the Examiner states that the invention includes different patentably distinct species, namely:

Specie I (claims 1-5): a method of fabricating a probe using three selectively etched mask layers and a boron diffused layer to form a cantilever, body and tip;

Specie II (claims 1, 6, and 8): a method of fabricating a probe in which the step of forming the boron diffused layer of claim 1 requires ion implantation of the boron and diffusion of the boron with a heat treatment;

Specie III (claims 1, 7, and 9): a method of fabricating a probe in which the step of forming the boron diffused layer of claim 1 comprises the diffusion of boron by heat treatment using a solid source containing boron; and